Database Setup Exercises

FFI uses the following hierarchy to organize data:

Database
  Administration Unit - Can have multiple Administration Units per database.
     Species lists and sampling protocols are carried with the Administration
     Unit. Reports and analysis are available for all Macroplots in an
     Administration Unit.
     Project - FFI allows unlimited number of Projects per Administration Unit
       Macroplots - Unlimited. Can assign Macroplots to more than one project for
          analysis.
          Sample Events - Unlimited number of re-measurements of each Macroplot

In these exercises you will:

1) Create a new Administration Unit and import protocols
2) Create a new project with four macroplots and sample events
3) Create another project with one macroplot and two sample events
4) Assign monitoring statuses to Project1
5) Assign monitoring statuses to Project2
6) Assign monitoring statuses to the sample events in Project1
7) Combine macroplots from two different projects into a new project

Exercise 1: Create a new Administration Unit and import protocols.

1.1   Double click on the FFI icon on your desktop to start the FFI software.

1.2   Select the SQL Server instance that you installed, enter the User Name
(sa), enter the Password you used when you installed SQL Server, select the
FFI_training database you created in the Database Administration exercise and
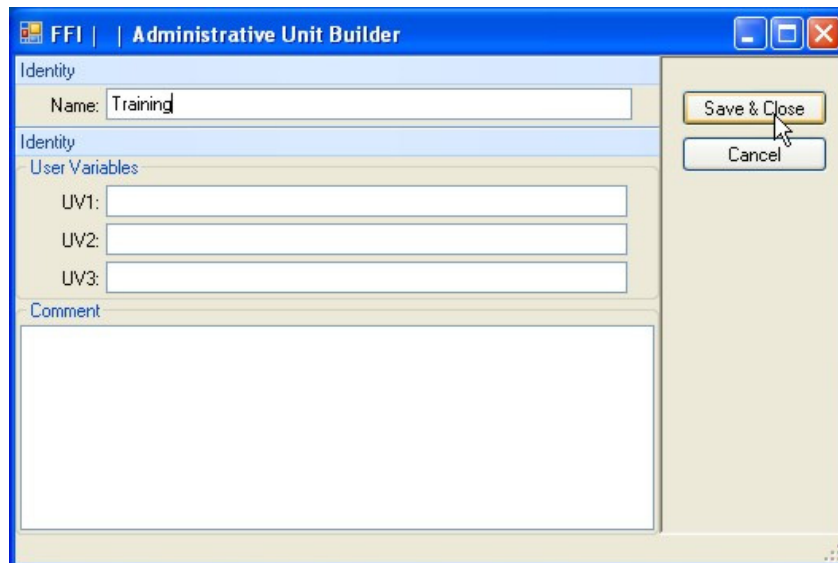click **OK**.
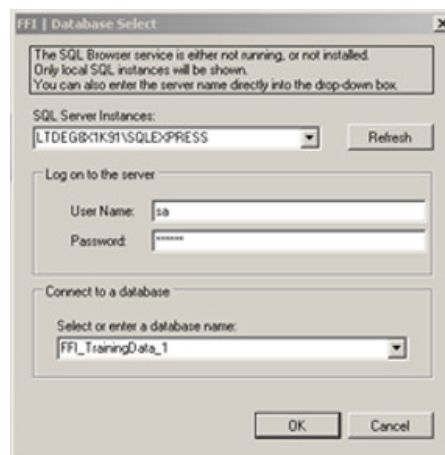
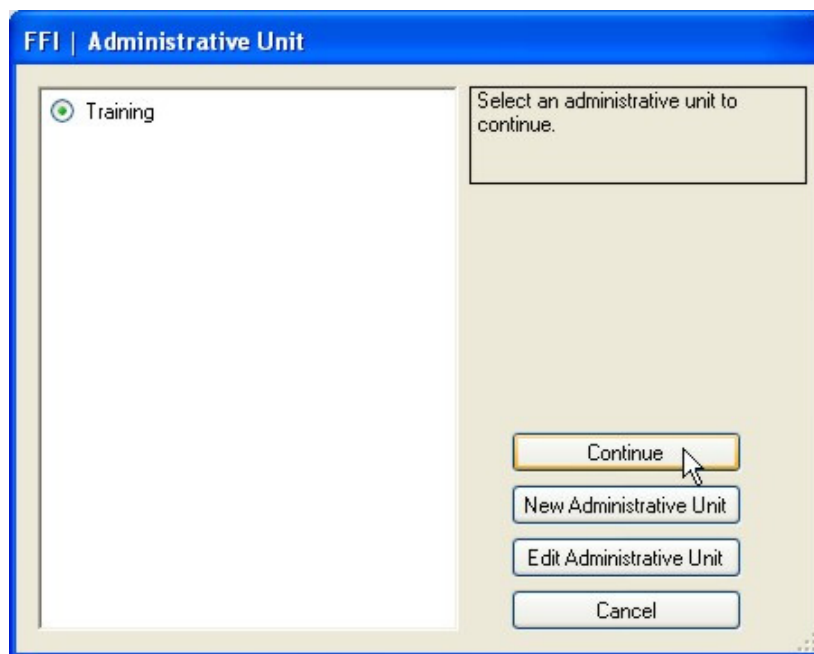**1.3**   Click the **New Administration Unit** button to create a new Administration
Unit.
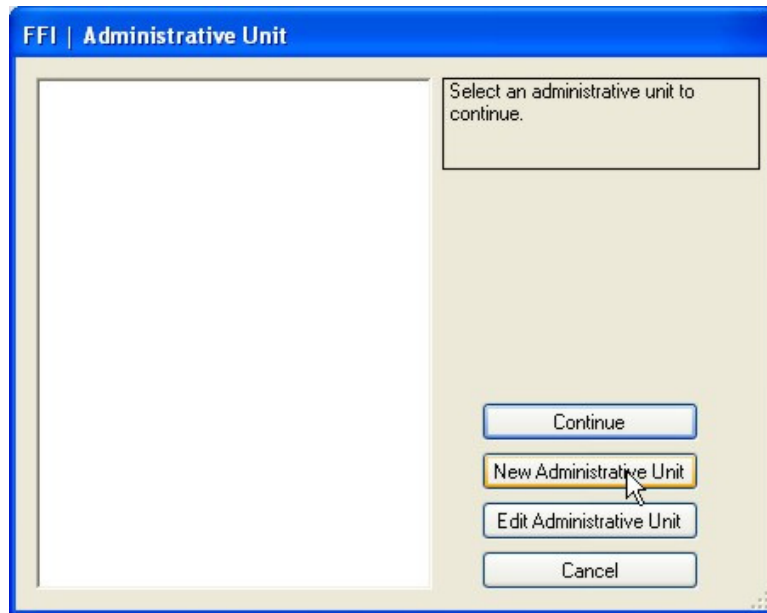
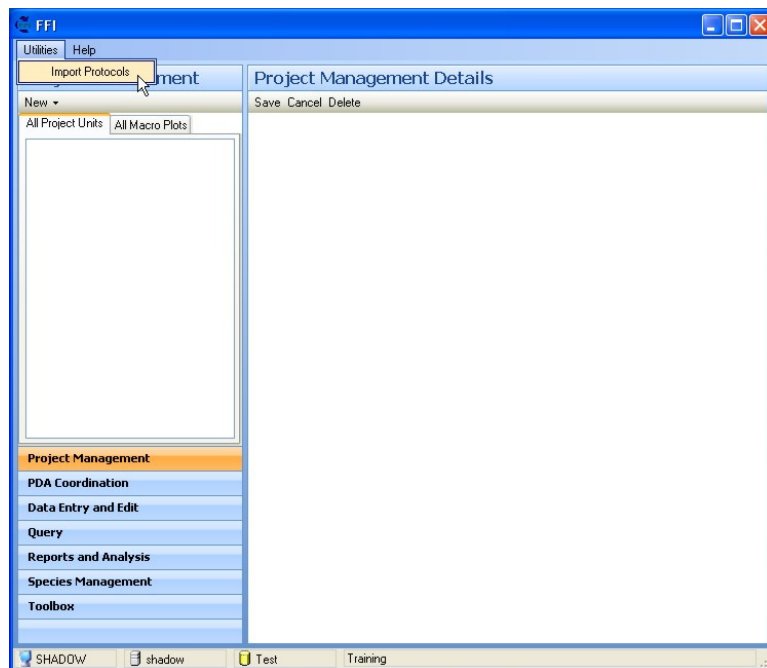**1.4**   Name the Administration Unit *Training* and click **Save & Close**

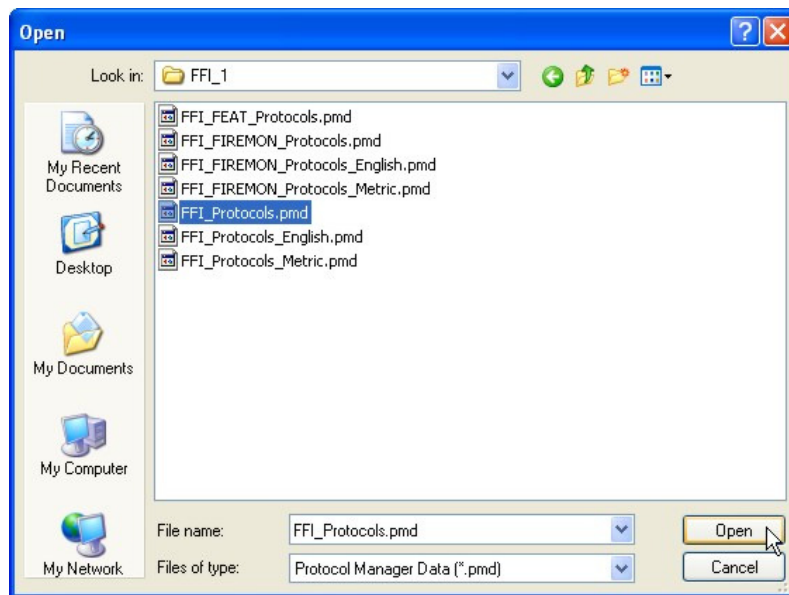**1.5**   Click **Continue** to connect to the FFI database.

1.6 Select **Utilities > Import Protocols** on the left side of the screen. Imported protocols are available for all projects in the Administration Unit.
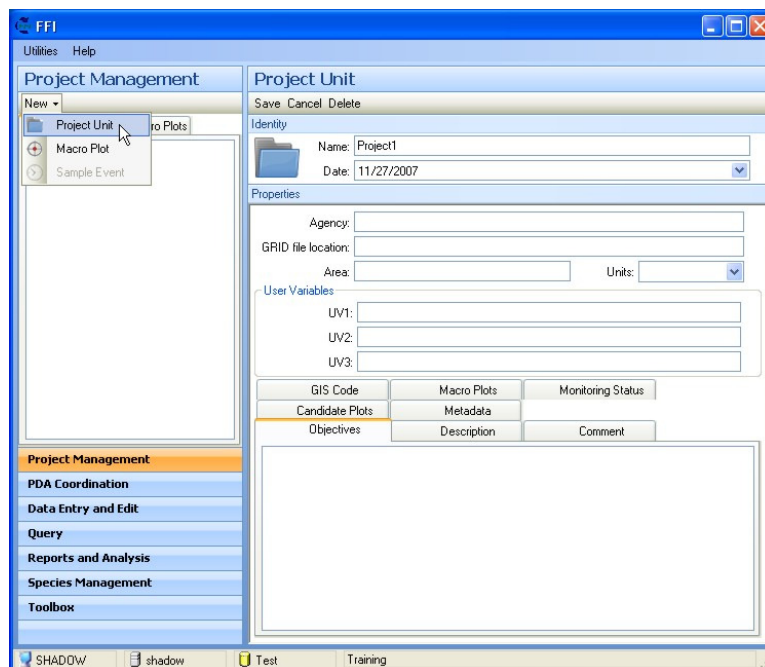

1.7 Select the *FFI_Protocols.pmd* file and click open. It will take about 5 minutes for the protocols to load.
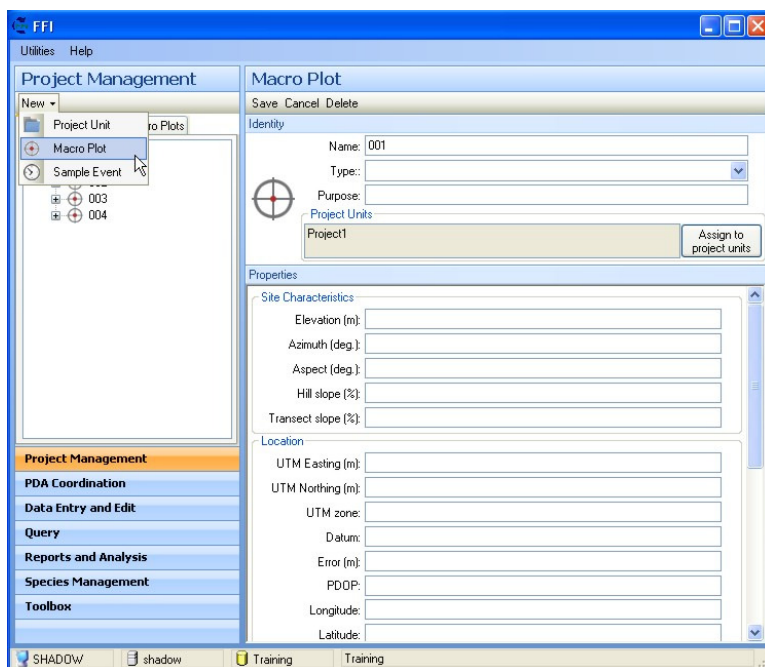
Exercise 2: Create a new project with 4 macroplots and sample events.

2.1 Select **New** > **Project Unit** in the left pane. Name the new project *Project1* in the right pane. Click **Save** at the top of the right pane.


2.2 Create a new macroplot by selecting **New > Macroplot** in the left pane. Name the new macroplot *001* and **Save**.

2.3 In the left pane click on the *+* sign next to *Project1* and click on macroplot *001* once to highlight it. Create a new sample event for the macroplot by selecting **New > Sample Event** in the left pane. The Sample Event will automatically be given today's date in the right pane. When entering real data you should use the date the data was collected. For this exercise leave the date at its default setting. Click **Save**
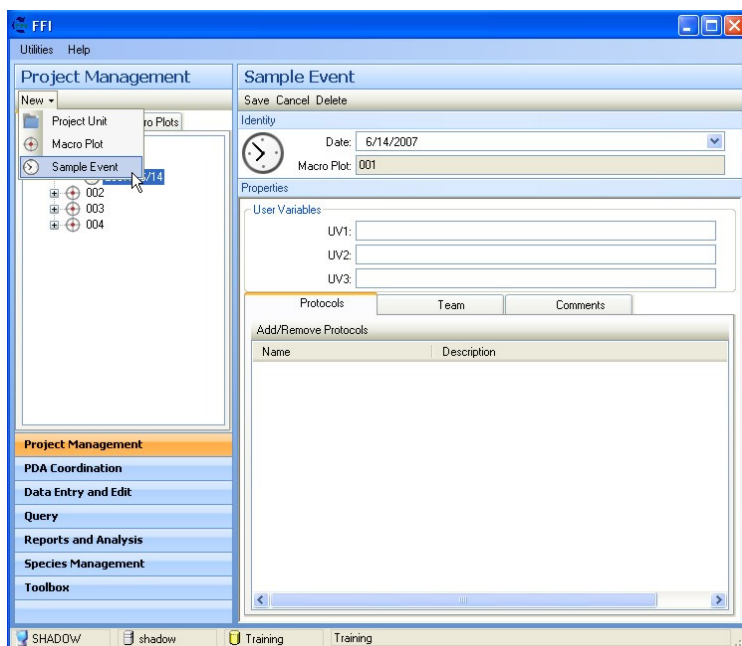
2.4 If not already selected click on the **Protocols** tab in the right pane and then click **Add/Remove Protocols**. Add the protocols for Surface Fuels, Surface

Database Setup

Fuels – Vegetation, Surface Fuels – Alaska Duff/Litter, Surface Fuels – Piles, and Biomass – Fuels to the sample event. Click **OK** to save and close.
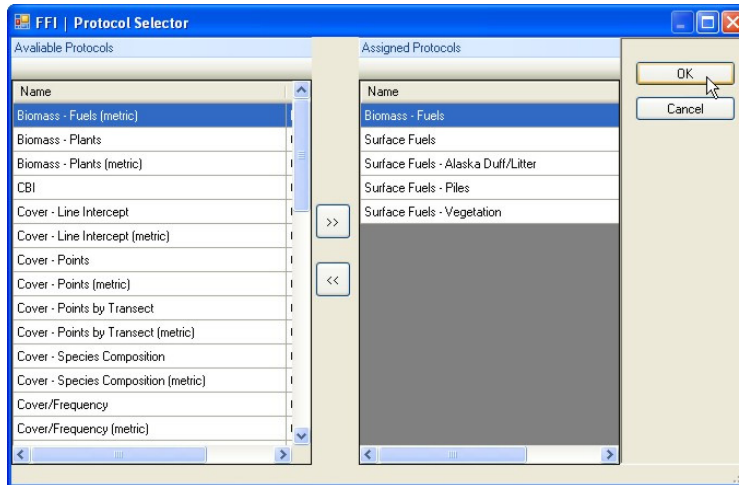
2.5   Create three more macroplots numbered *002*, *003* and *004*. Create one Sample Event for each Macroplot. Import the following protocols for the new Macroplots/Sample Events.

Macroplot *002*:
- Cover – Species Composition
- Cover – Line Intercept
- Cover / Frequency
- Density - Belts
- Density – Quadrats
- Rare Plants Species

Macroplot *003*:
- Cover – Points
- Cover – Points by Transect
- Trees
- Biomass – Plants
- FCCS

Macroplot *004*:
- Plot Description
- Pilot Sampling
- Fire Behavior
- Post Burn Severity (metric)
- Composite Burn Index
- Disturbance History
- FCCS

Exercise 3: Create another project with one macroplot and two sample events.

3.1   Create another project and name it *Project2*.

3.2   Create a new macroplot in this project and name it *005*.

3.3   Create two new sample events for this macroplot and add the *Trees* protocol to each sample event.

After adding the two projects with their associated macroplots and sample events, the **Project Management** tree view should look similar to the figure below.
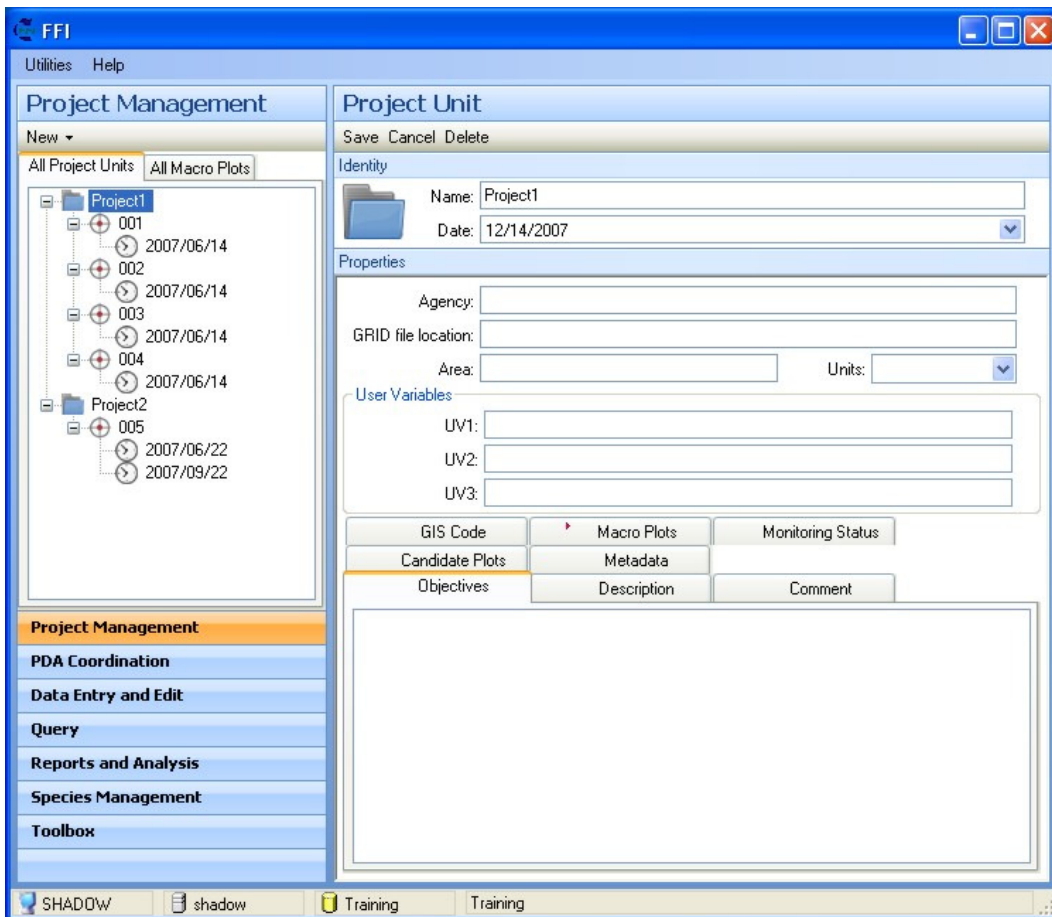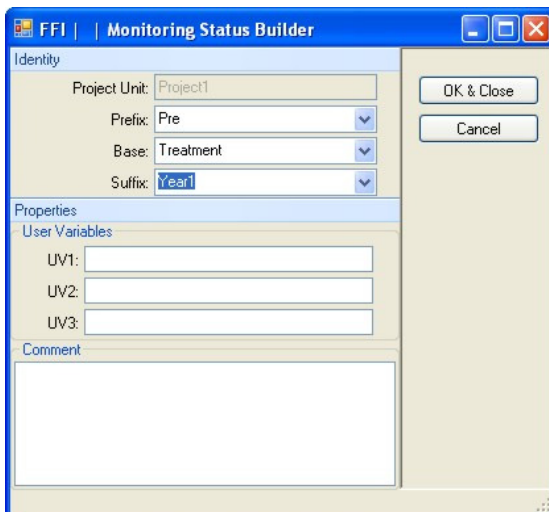

Exercise 4: Assign monitoring statuses to Project1.

Database Setup

4.1   Select *Project1* from the tree view in the left pane, click on the **Monitoring Status** tab toward the bottom of the right pane, and click the **Add** button.
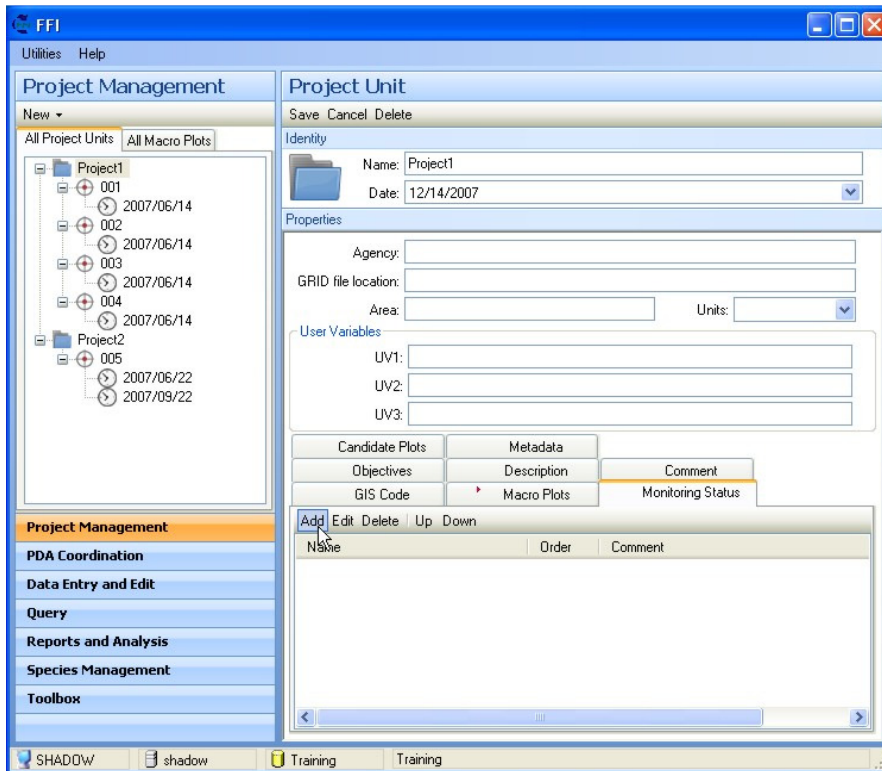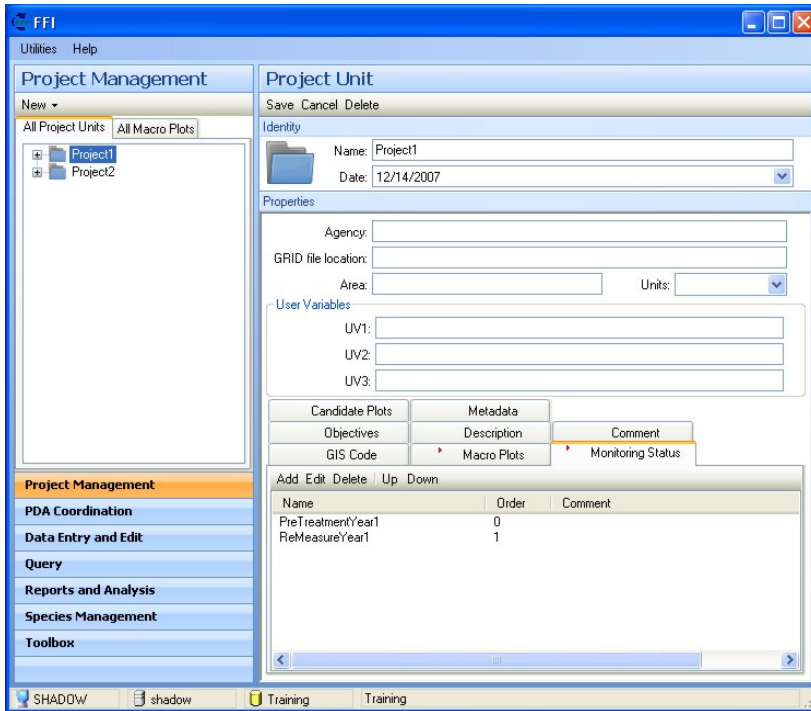

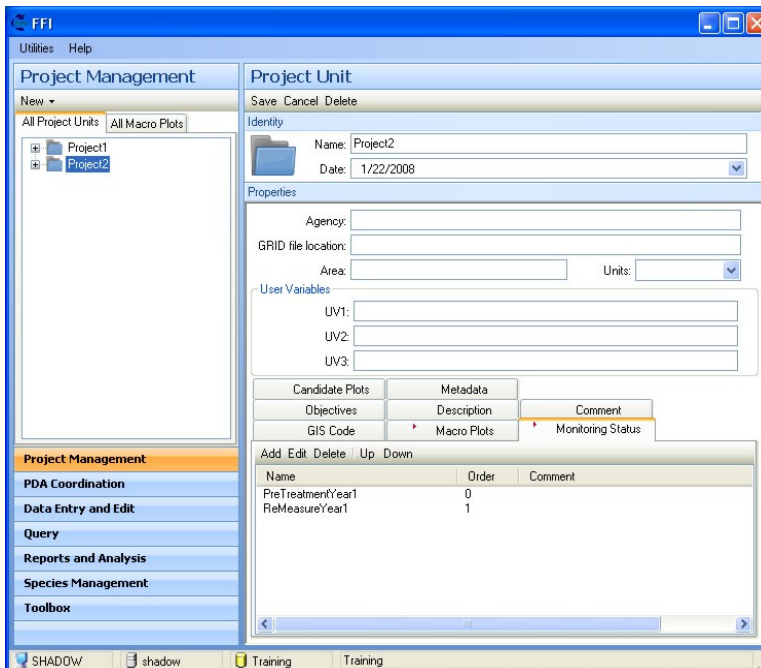**4.2**   Add a first monitoring status named *PreTreatmentYear1* and click **OK & Close**.

4.3   Add a second monitoring status named *ReMeasureYear1* and click **OK & Close**.

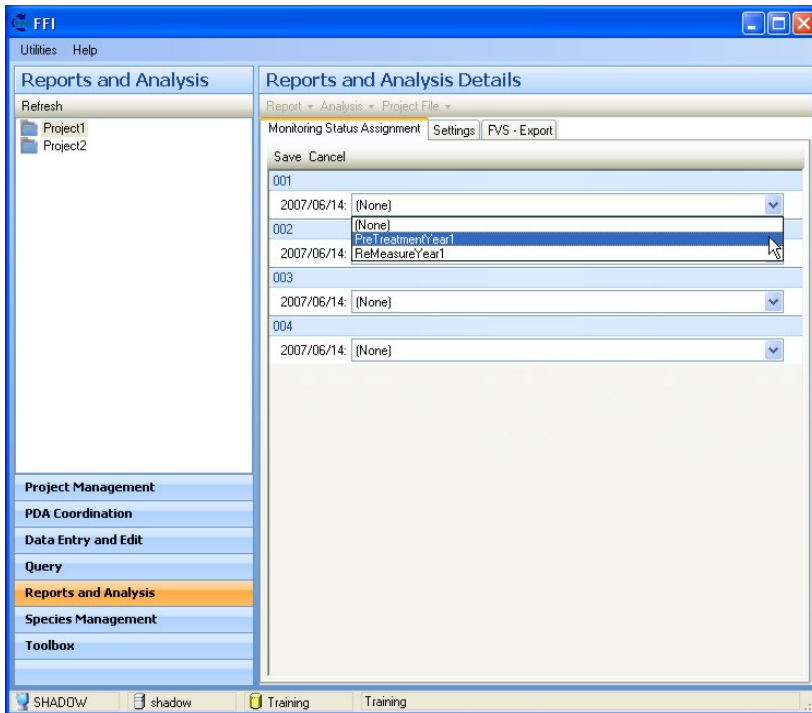## Exercise 5: Assign monitoring statuses to Project2.

5.1 Select *Project2*, click on the **Monitoring Status** tab, click the **Add** button and add two monitoring statuses: *PreTreatmentYear1* and *ReMeasurementYear1*.
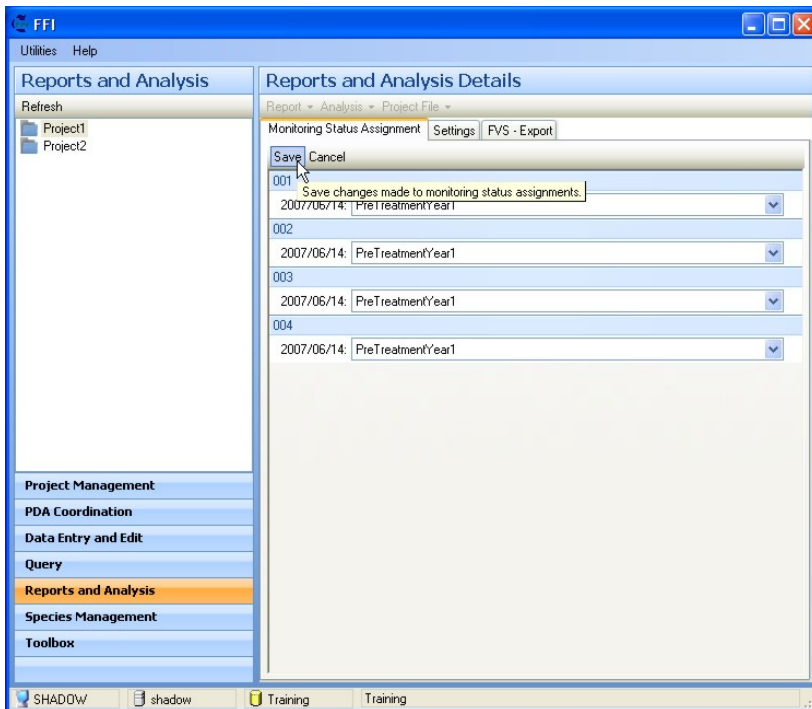

Exercise 6: Assign monitoring statuses to the sample events in Project1.

Database Setup

6.1 Select **Reports and Analysis** in the lower left of the screen. Select *Project1* in the tree view on the left pane and, in the right pane, assign *PreTreatmentYear1* to all sample events.
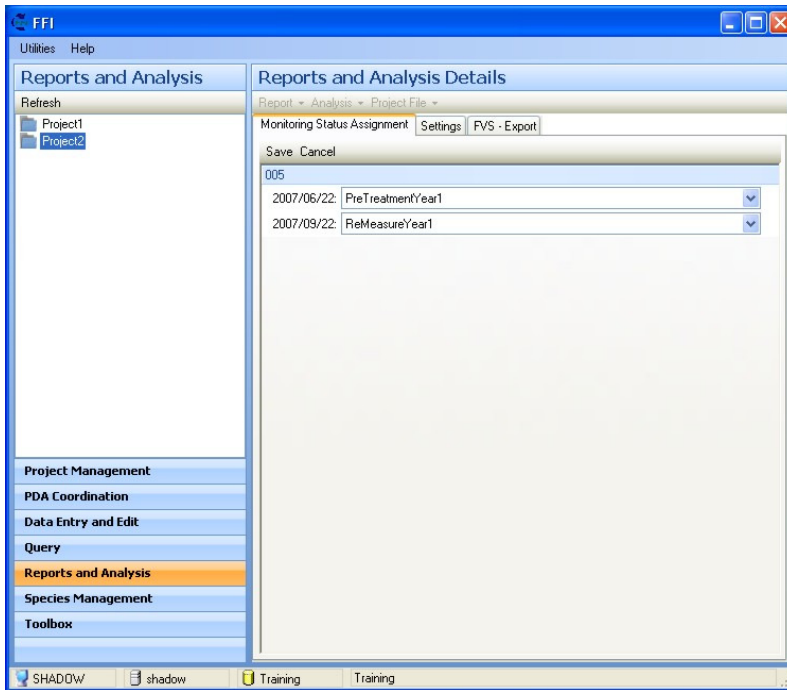

**6.2** Save the monitoring status assignments.

6.3   Select *Project2* and assign *PreTreatmentYear1* to the first sample event and *ReMeaureYear1* to the second sample event. Save the monitoring status assignments.
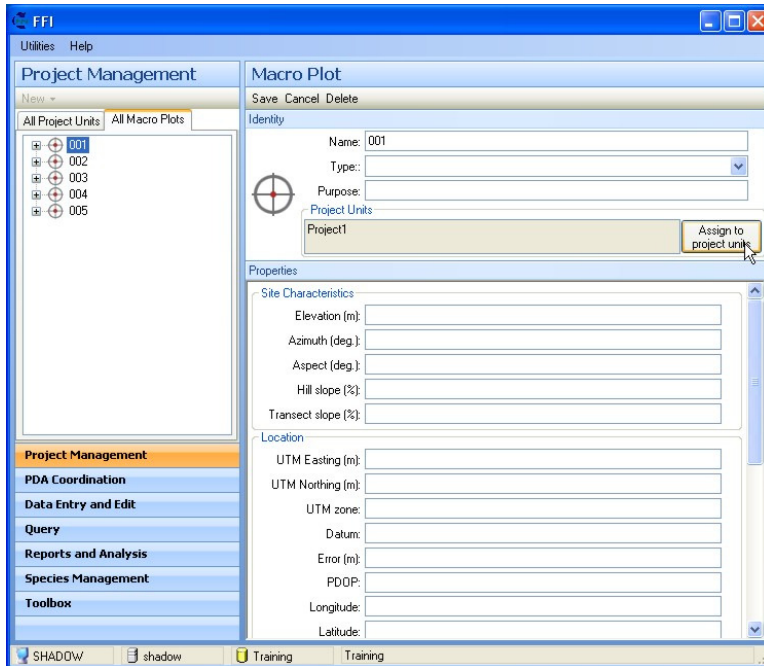

Exercise 7: Combine macroplots from two different projects into a new project.

7.1   Select **Project Management** at the lower left and create a new project named *Project3*.
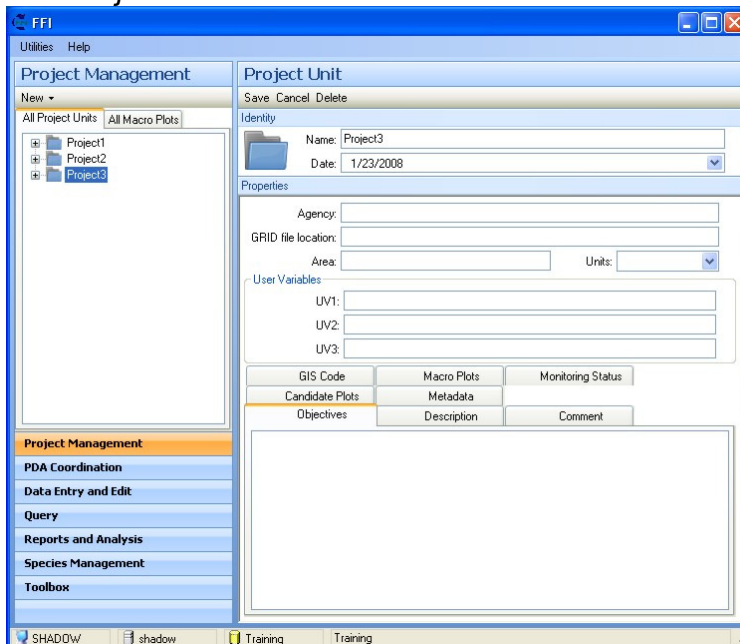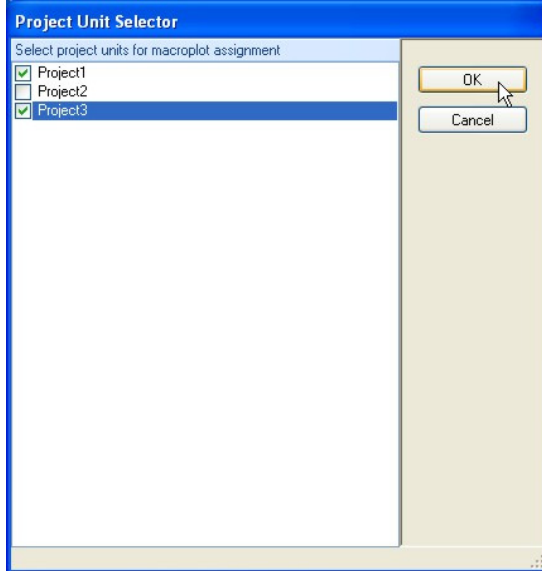
7.2 Select the **All Macro Plots** tab at the top of the left pane, click once on macroplot *001* to highlight it and click the *Assign to project units* button.

7.3 Assign the macroplot to *Project3*.

7.4 Assign the rest of the macroplots to *Project3* using the procedures in the previous two steps.

After assigning all macroplots to *Project3*, the Project Management tree view will look similar to the figure below.